

WHAT IS CLAIMED IS:

1. A process for producing a glass for cathode ray tubes, having a Sb_2O_3 content of from 0 to 0.19% as represented by mass percentage and containing H_2O , which 5 process comprises a step of melting a raw material in an atmosphere under a pressure of P_0 to obtain a molten glass, and a step of vacuum degassing the molten glass in an atmosphere under a pressure P_A which is lower than P_0 , wherein the pressure P of the molten glass is made to be 10 at most $(6.1W+0.06)$ atm in the vacuum degassing step, wherein W is the content of said H_2O as represented by mass percentage.

2. The process for producing a glass for cathode ray tubes according to Claim 1, wherein the period of time 15 during which the pressure P of the molten glass is made to be at most $(6.1W+0.06)$ atm, is at least 0.1 hour.

3. The process for producing a glass for cathode ray tubes according to Claim 1, wherein P_0 is from 0.8 to 1.2 atm.

20 4. The process for producing a glass for cathode ray tubes according to Claim 1, wherein W as represented by mass percentage, is from 0.005 to 0.05%.

5. The process for producing a glass for cathode ray tubes according to Claim 1, wherein the glass for cathode 25 ray tubes consists essentially of, as represented by mass percentage based on the following oxides:

SiO_2 45 to 70%,

	Al ₂ O ₃	0 to 10%,
	Na ₂ O	1 to 15%,
	K ₂ O	3 to 15%,
	MgO	0 to 10%,
5	CaO	0 to 10%,
	SrO	0 to 13%,
	BaO	0 to 16%,
	ZnO	0 to 5%,
	ZrO ₂	0 to 5%,
10	TiO ₂	0 to 2%,
	CeO ₂	0 to 5%,
	B ₂ O ₃	0 to 5%,
	Sb ₂ O ₃	0 to 0.19%,
	H ₂ O	0.005 to 0.05%,
15	SnO ₂	0 to 5%, and
	SO ₃	0 to 0.4%.

6. The process for producing a glass for cathode ray tubes according to Claim 1, wherein the Sb₂O₃ content as represented by mass percentage in the glass for cathode ray tubes, is from 0 to 0.029%.

7. The process for producing a glass for cathode ray tubes according to Claim 1, wherein the glass for cathode ray tubes contains no SnO₂.

8. The process for producing a glass for cathode ray tubes according to Claim 1, wherein the glass for cathode ray tubes contains SO₃, and its content as represented by mass percentage is from 0.05 to 0.4%.